

What is claimed is:

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1. A method for use in delivering network messages, the method comprising:

attempting to identify a router that a first host can communicate with; and

if the attempt fails, attempting to identify at least one host that the first host can communicate with, the at least one host having a network layer address network prefix that differs
10 from the network layer address network prefix of the first host.

2. The method of claim 1, wherein attempting to identify the router comprises waiting for a router availability message.

15 3. The method of claim 2, wherein waiting for the router availability message comprises waiting for a message addressed to a multicast address.

20 4. The method of claim 1, wherein attempting to identify the router comprises sending a message querying for available routers.

25 5. The method of claim 1, further comprising sending a message to the second host.

6. The method of claim 1, wherein attempting to identify the router comprises attempting to identify a router providing a first set of services.

30 7. The method of claim 6, wherein attempting to identify a router comprises attempting to identify a router providing a second set of services.

8. The method of claim 1, further comprising:
determining an Internet Protocol address of the second
host; and

5 modifying a forwarding table to include an entry for the
second host.

9. The method of claim 1, wherein the router comprises a
foreign agent.

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10. The method of claim 1, wherein the first host
comprises a wireless host.

11. The method of claim 10, wherein the at least one host
15 comprises at least one wireless host.

12. A computer program product, disposed on a computer
readable medium, for use in delivering network messages, the
computer program including instructions for causing a processor
20 to:

attempt to identify a router that a first host can
communicate with; and

if the attempt fails, attempt to identify at least one host
that the first host can communicate with, the at least one host
25 having a network layer address network prefix that differs from
the network layer address network prefix of the first host.

13. The computer program of claim 12, wherein the
instructions for causing the processor to attempt to identify
30 the router comprise instructions for causing the processor to
wait for a router availability message.

14. The computer program of claim 13, wherein the instructions for causing the processor to wait for the router availability message comprise instructions for causing the processor to wait for a message addressed to a multicast address.

15. The computer program of claim 12, wherein the instructions for causing the processor to attempt to identify the router comprise instructions for causing a processor to send a message querying for available routers.

16. The computer program of claim 12, further comprising instructions for causing the processor to send a message to the second host.

17. The computer program of claim 12, wherein the instructions for causing the processor to attempt to identify the router comprise instructions for causing the processor to attempt to identify a router providing a first set of services.

18. The computer program of claim 17, wherein the instructions for causing the processor to attempt to identify a router comprise instructions for causing the processor to attempt to identify a router providing a second set of services.

19. The computer program of claim 12, further comprising instructions for causing the processor to
determine an Internet Protocol address of the second host;
and
modify a forwarding table to include an entry for the second host.

20. The computer program of claim 12, wherein the router comprises a foreign agent.

21. The computer program of claim 12, wherein the first
5 host comprises a wireless host.

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